

A white balance adjustment device operates by measuring the intensity of the main colours of illuminating light 40 by using LEDs (Light Emitting Diodes) as integrated colour filters and photo sensors. LEDs have typically a narrow reception band enabling measurement of light intensity on such narrow colour bands that are required in the white balancing. The intensity of each main colour in the illuminating light is measured by dedicated LEDs having corresponding colour measurement bands. The measurement of individual intensities is used in adjusting the proportional strengths of corresponding signals originating from the camera's detector, for example a CCD-array (Charge Coupled Device), in order to produce an image with a more natural colour rendition.

Fig. 2.